



Preliminary Detailed Agenda

Wednesday

October 5, 2015

7:30 – Registration open all day

8:00 – 9:00 a.m.

BEACH 101 – Shannon Briggs, Holly Wirick and Bill Kramer

This is a “big picture” overview of monitoring beaches. Training includes developing a sampling plan, options for lab testing, communicating results to the public, why sanitary surveys are important and how they improve beaches, using Virtual Beach to forecast water quality, identifying sources of contamination, and initiating remediation projects. The “big picture” perspective also includes a look at the National Beach Program that offers the public and beach managers access to information provided by the states, tribes and territories. A prototype of a secure, web accessible Verification Tool (vT) for the U.S. Environmental Protection Agency (U.S. EPA) Web site, BEACON, will be demonstrated.

9:00 – 10:00 a.m.

SANITARY SURVEYS – Kim Busse, Greg Kleinheinz, and Dr. Julie Kinzelman

Beach managers will explain how to use a one page sanitary survey with routine monitoring data to identify sources of pollution. Sanitary surveys lead to corrective actions, successful remediation projects, and serve as stepping stones to build forecast models with Virtual Beach.

10:30 – 11:30 a.m.

REINVENTING THE RUST BELT WITH RECREATION (Panel of Case Studies)

Candy Fletcher-Kozeluh (Trails Coordinator for Travel Marquette)

Speaker TBD – Benefits of shipwrecks as a recreational opportunity.

Speaker TBD – Community development and planning utilizing its natural resources assets.

10:00 a.m. – noon

QPCR REUNION Part 1 - Erin Dreelin, Tiong Gim Aw, Nichole Schafer

The qPCR Reunion will be an open discussion for people that work with qPCR and make decisions based on those results. Discussion will primarily be for Draft Method C for qPCR and E. coli results. All levels of experience are welcome to join and to share experiences, issues, and successes with qPCR.

11:30 a.m. – 12:30 p.m.

SOCIAL AND ECONOMIC VALUES OF OUTDOOR ASSETS AND NATURAL RESOURCES

Scott Jordan, Northern Michigan University

12:30 – 1:30 p.m.

LUNCH/VIDEO

12:30 – 1:30 p.m.

GREAT LAKES BEACH ASSOCIATION BOARD MEETING AND LUNCH

This meeting is led by elected members of the Great Lakes Beach Association. All are invited to listen in and provide comment.

- 1:30 – 3:30 p.m. **QPCR REUNION Part 2 – Rich Haugland and Rick Rediske**
Dr. Rich Haugland and Dr. Rick Rediske will provide training and guide you through the technical discussion for draft Method C, standard curves, and calculating results that will be reported by local health departments. There will be open discussion for questions, comments, and helpful tips. Please visit the U.S. EPA web page to see the calculation spreadsheet before the meeting <http://water.epa.gov/scitech/methods/cwa/bioindicators/index.cfm>
- 1:30 – 2:30 p.m. **TOOLS: MAPPING AND VALUING YOUR OUTDOOR RECREATION ASSETS AND STAKEHOLDERS**
Lori Booth, Global Grants Manager, Surfrider Foundation and Jamie Cross, Clean Beaches Initiative, Alliance for the Great Lakes
- 2:30 – 3:30 p.m. **DEFINING A PLACE, SELLING A BRAND - Jonathan Campbell, Lake Effect Associates, and WMEAC**
Group Exercise: Seeing your community through the eyes of Millennials: the “Experience Economy,” Pick a demographic, and identify ten “destination places” in your community
- 3:30 – 4:00 p.m. **Jerry Mills:** Great Lakes stories and songs designed to provide professional motivation and inspiration!
- 4:00 – 5:00 p.m. **MARQUETTE SHORELINE WALKING TOURS**
Founders Landing: Join us for an informative walking tour that shows how a blighted, industrial zone can be transformed into a thriving waterfront asset including public beach access, bike trails and new development. Learn about the history of Founders Landing where the first European settlers landed, how the area developed into a railyard and oil storage facility and how this coastal area has been revitalized including daylighting an urban trout stream.
Marquette Harbor Lighthouse and Maritime Museum: Join this walking tour and travel through 150 years of time. Visit the historic Marquette Harbor Lighthouse (built 1866) and learn how the City of Marquette recently took ownership from the US Coast Guard. Also visit the adjacent Marquette Maritime Museum and learn about the regions nautical past. You may even see a ghost!
- 3:30 – 5:30 p.m. **QPCR Q & A DISCUSSION**
- 6:00 to 9:00 p.m. **POSTER SESSION & EVENING RECEPTION FEATURING A TASTE OF MARQUETTE | ORE DOCK**
View the poster presentations while listening to live music provided by local musicians and enjoying a “Taste of Marquette.” Experience a wide variety of fresh foods from regional Farm to Table growers plus fresh Lake Superior Whitefish...sometimes caught the same day! Hors d'oeuvres provided by Babycakes Muffin Company and Coco's Restaurant.

Thursday

October 6, 2016

- 7:30 a.m. **Registration and Continental Breakfast** (Registration open all day)
- 8:30 a.m. **Opening Remarks**, Shannon Briggs, Michigan Department of Environmental Quality (MDEQ); Meredith Nevers, U.S. Geological Survey (USGS); Kim Busse, University of Wisconsin OshKosh
- 8:45 a.m. **Welcome**, Kay Hiebel, Director of the Marquette Regional History Center; Aaron Peterson, Photographer and Filmmaker
- 9:15 a.m. **Superior Beach Stories and New Coastal Monitoring Tools!** Carl Lindquist and Jeff Koch, Superior Watershed Partnership
- 9:50 a.m. **Student Awards**, Dr. Richard and Mrs. Dianna Whitman
- 10:00 a.m. **BREAK** | Exhibitor/Poster Space
- 10:20 a.m. **PATHOGENS & HEALTH RISK** – Moderator: Dr. Greg Kleinheinz, University of Wisconsin-Oshkosh
- Evidence-based guidelines for Microbial Source Tracking projects
Mauricio Larenas, Source Molecular Corporation
 - A High-Throughput Sequencing-Based Approach for Determining Sources of Fecal Bacteria in Freshwater
Clairessa M. Brown, University of Minnesota - Twin Cities
 - EPA Method 1603 “Spike the Ball” Study
Mark Citriglia, Northeast Ohio Regional Sewer District
 - E. coli qPCR as an alternative method for Great Lakes Beach Monitoring
Dr. Rich Haugland, U.S. Environmental Protection Agency (EPA), Office of Research and Development, National Exposure Research Laboratory
 - Mapping E. coli Pollution Problems
Molly Rippke, MDEQ
- 12:00 p.m. **LUNCH - Guest speaker:** Mr. Calum McPhail, Scottish Environmental Protection Agency
- 1:30 p.m. **NUISANCE AND HARMFUL ALGAL BLOOMS:** – Moderator: Raj Bejankiwar
- New York State Department of Health’s Harmful Algae Bloom Response Protocol and Tools
Eric Wiegert, Bureau of Community Environmental Health and Food Protection, Center for Environmental Health, New York State Department of Health
 - Maximizing DNA Extraction from Cladophora for Genomic Analysis and Detection of Microbial Communities
Kasia Kelly, USGS, Lake Michigan Ecological Research Station
 - Technical Demonstration of the One Health Harmful Algal Bloom System (OHHABS)
Virginia A. Roberts, Center for Disease Control
 - qPCR: A Screening Tool for Harmful Algal Blooms
Mark Citriglia, Northeast Ohio Regional Sewer District
 - Creating your own Beach Data Story using the MyGLOS Data Portal
Rebecca Pearson, Great Lakes Observing System

3:10 p.m. **BREAK** | Exhibitor/Poster Space

3:30 p.m. **BEACH HAZARDS** - Moderator: Clare Robinson

Drowning: Addressing the Hidden Epidemic

Bob Pratt, Great Lakes Surf Rescue Project

Improving Safety from Dangerous Currents, and Opportunities to Work Together

Jesse Schomberg, University of Minnesota Sea Grant

Beach Hazard Risk Communication and Education in Support of Rip Current Forecasting

Tod Breiby, Wisconsin Coastal Management Program

Development and Application of Integrated Nowcast – Forecast Operational System (INFOS) for Rip Currents in the Great Lakes

Chin H. Wu, University of Wisconsin – Madison

Discussion/Take-away

5:00 p.m. **Dinner on own**

Friday

October 7, 2016

7:30 a.m. **Continental Breakfast**

8:30 a.m. **BEACH RESTORATION** – Moderator: Kim Busse, University of Wisconsin - OshKosh

Successful Beach Restoration in an Area of Concern

Sheri J. Faust, St. Clair County Health Department

Montrose Beach Sustainable Proposal to Improve Beach Water Quality and Public Access

William J. Weaver, AECOM

Dramatic Long-Term Improvement in E. coli at Lake Michigan Recreational Beaches: A “Clear” Pattern

Chelsea Weiskerger, Michigan State University

Protecting Your Investment - A Candid Look at Beach Restoration Maintenance and Longevity Importance

Tonya Lewandowski, Environmental Consulting & Technologies, Inc.

Using Virtual Beach to Help Inform and Evaluate Restoration Projects

Adam Mednick, University of Wisconsin Sea Grant Institute

Discussion/Take-away

10:10 a.m. **BREAK**

10:30 a.m. **SHORELINE PRESERVATION** - Moderator: Sara Thiel, Director of Operations, Miller Engineers & Scientists

Revetments as a Last Line of Defense

Peter Pittner, Miller Engineers & Scientists

The incredible American Beach Grass: *Amophila breviligulata*

Deane Wassink, Olde Paths, Inc.

Developing Land Use Regulations to Protect Coastal Resources in Grand Haven

Katie Moss Sieb, Land Information Access Association

Riparian Rights Boundaries – Where Do My Rights End and My Neighbor’s Rights Begin?

Dustin P. Ordway, Ordway Law Firm

Discussion/Take-away

12:00 p.m. **LUNCH (on your own)**

1:30 p.m. **Walking Tour of Marquette Shoreline** – Self-guided